MOB

LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(344091)
Machine Id
LIEBHERR LH40M 120553-1215
Component
Rear Right Wheel Hub
Fluid
PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA TRAXON 75W90 SYNTHETIC, however, a fluid match indicates that this fluid is SAE 90 Gear Oil. Please confirm the oil type and grade on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

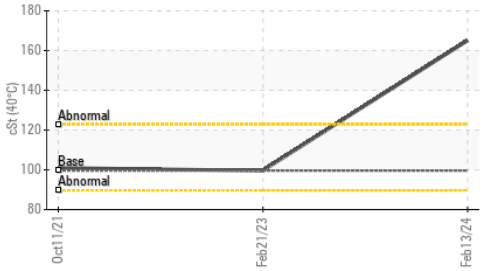
There is no indication of any contamination in the oil.

FLUID CONDITION

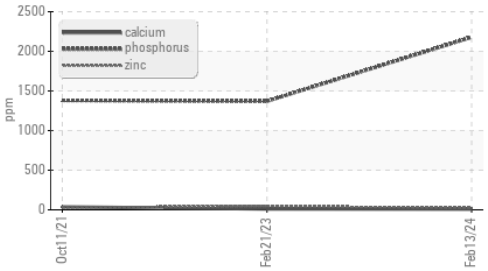
Viscosity of sample indicates oil is within SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**LH0193882**	LH0193868	LH0193854
Sample Date		Client Info		**13 Feb 2024**	21 Feb 2023	11 Oct 2021
Machine Age	hrs	Client Info		**4086**	2835	1021
Oil Age	hrs	Client Info		**0**	0	0
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**None**	None	None
Sample Status				**NORMAL**	ABNORMAL	MARGINAL
Iron	ppm	ASTM D5185(m)	>650	**72**	38	13
Chromium	ppm	ASTM D5185(m)	>4	**<1**	0	0
Nickel	ppm	ASTM D5185(m)	>4	**<1**	0	<1
Titanium	ppm	ASTM D5185(m)	>4	**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>25	**<1**	<1	<1
Lead	ppm	ASTM D5185(m)	>4	**<1**	3	1
Copper	ppm	ASTM D5185(m)	>60	**24**	▲ 84	32
Tin	ppm	ASTM D5185(m)	>4	**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
White Metal	scalar	Visual*	NONE	**NONE**	VLITE	▲ LTMOD
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>75	**2**	2	2
Potassium	ppm	ASTM D5185(m)	>20	**<1**	<1	1
Water		WC Method	>0.2	**NEG**	NEG	NEG
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	NORML
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**3**	2	3
Boron	ppm	ASTM D5185(m)	328	**36**	316	249
Barium	ppm	ASTM D5185(m)	1	**0**	0	<1
Molybdenum	ppm	ASTM D5185(m)		**0**	0	<1
Manganese	ppm	ASTM D5185(m)		**1**	2	<1
Magnesium	ppm	ASTM D5185(m)	1	**<1**	1	1
Calcium	ppm	ASTM D5185(m)	7	**9**	11	37
Phosphorus	ppm	ASTM D5185(m)	1145	**2179**	1371	1381
Zinc	ppm	ASTM D5185(m)	3	**22**	47	28
Sulfur	ppm	ASTM D5185(m)	17909	**24620**	22321	20934
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	**165**	99.6	101

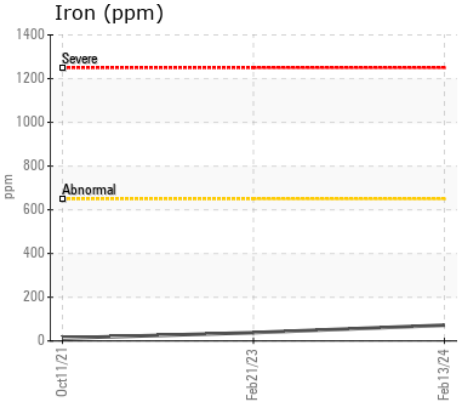
Viscosity @ 40°C



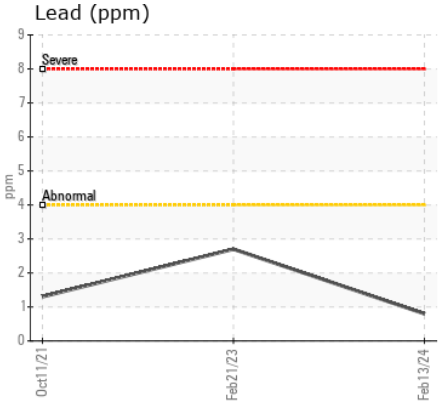
Additives



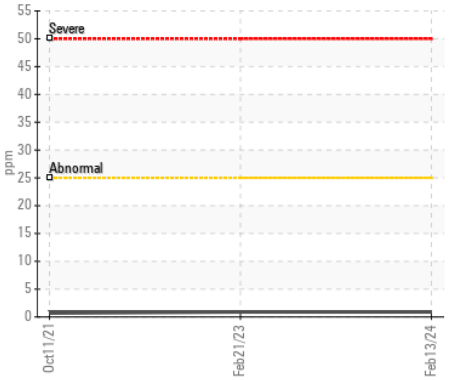
Iron (ppm)



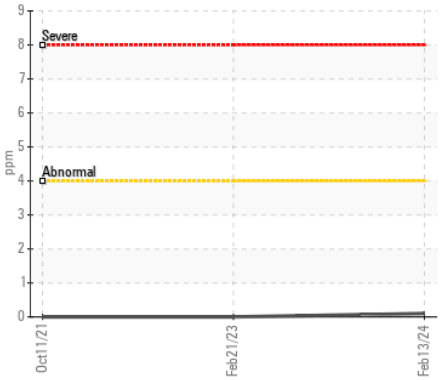
Lead (ppm)



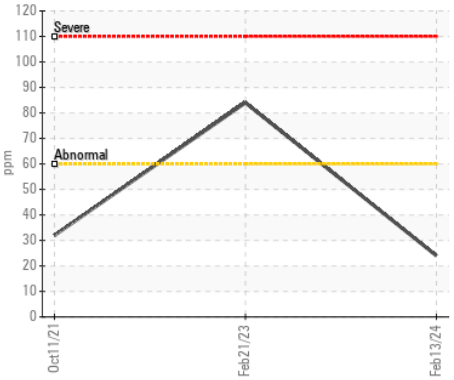
Aluminum (ppm)



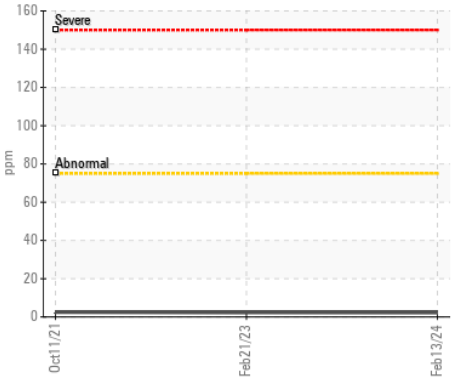
Chromium (ppm)



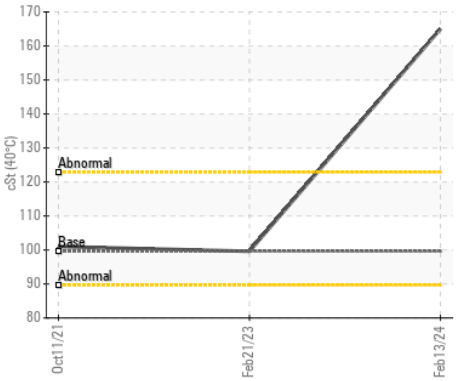
Copper (ppm)



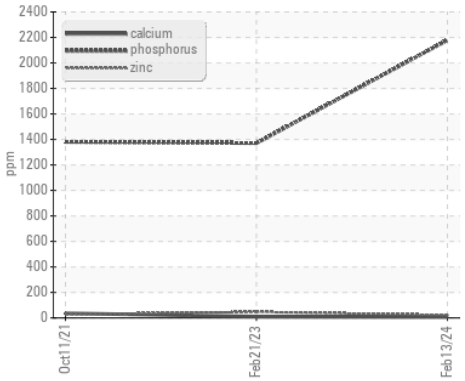
Silicon (ppm)



Viscosity @ 40°C



Additives



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0193882 **Received** : 16 Feb 2024
Lab Number : 02616386 **Tested** : 20 Feb 2024
Unique Number : 5733496 **Diagnosed** : 20 Feb 2024 - Kevin Marson
Test Package : MOBCE (Additional Tests: Visual)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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Contact: Service Manager

T:
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